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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference	EOD EUDTUED A COLOR	SeeNotificationofT	ransmittalofInternatio	onalPreliminary		
OPP020536KR	FOR FURTHER ACTION	Examination Report (Form PCT/IPEA/416)				
International application No.	International filing date(day/mo	nth/year) Prio	ority date (day/month	lyear)		
PCT/KR2002/001782	19 SEPTEMBER 2002 (JULY 2002 (19.07.2	002)		
International Patent Classification (IPC) IPC7 G02F 1/1337	or national classification and IP		·			
Applicant SAMSUNG ELECTRONICS (CO LTD et al					
	Co., DID. et al					
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 						
2. This REPORT consists of a total of		_				
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a total ofsheets.						
This report contains indications re	elating to the following items:					
I X Basis of the report						
П Priority						
III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Lack of unity of invention						
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
VI Certain documents cited						
VII Certain defects in the international application						
VIII Certain observations on the international application						
Date of submission of the demand	Date of	f completion of this re	port			
17 FEBRUARY 2004	(17.02.2004)	10 NOVEMBER 2	004 (10.11.2004)			
Name and mailing address of the IPEA/k	· ·	rized officer				
Korean Intellectual Property 920 Dunsan-dong, Seo-gu, I Republic of Korea	Vanion 202 701	LEE, Jong Joo	•	()[各為)		
Facsimile No. 82-42-472-7140	Telepl	one No. 82-42-481-	8192	Contract of the second		

I.	Basi	is of the report					
1.	With	h regard to the elements of the international application:*					
	X	the international application as originally filed					
		the description:					
		pagespages	, as originally filed , filed with the demand				
	pages, filed with the demandant pages, filed with the demandant pages, filed with the demandant pages, filed with the letter of						
	the claims:						
		pages	, as originally filed				
		pages, as amended (together with pages	, filed with the demand				
l		pages, filed with the letter of					
		the drawings:					
		pages	, as originally filed				
		pages, filed with the letter of	, filed with the demand				
		the sequence listing part of the description:	•				
		pages	, as originally filed				
		pages, filed with the letter of	, filed with the demand				
2.	the i	th regard to the language, all the elements marked above were available or furnished to this A international application was filed, unless otherwise indicated under this item. ese elements were available or furnished to this Authority in the following language En	glish which is				
		the language of a translation furnished for the purposes of international search (under Rule	23.1(b)).				
		the language of publication of the international application (under Rule 48.3(b)).					
	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/ or 55.3).						
3.	 With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: contained inthe international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. 						
	Ħ	furnished subsequently to this Authority in computer readable form					
	The statement that the subsequently furnished written sequence listing does not go beyond the disc losure in the international applications as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.						
4.		The amendments have resulted in the cancellation of:					
		the description, pages					
		Lie Claims, 140s.					
_		the drawings, sheets					
5.		This report has been established as if (some of) the amendments had not been made, sir go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**	nce they have been considered to				
	in this	acement sheets which have been furnished to the receiving Office in response to an invitation is opinion as "originally filed." and are not annexed to this report since they do not conto 70.17).	under Article 14 are referred to nin amendments (Rules 70.16				
**	** Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.						

٧.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims	1-17	YES
		Claims		NO
	Inventive step (IS)	Claims		YES
		Claims	1-17	NO
	Industrial applicability (IA)	Claims	1-17	YES
		Claims		NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1 : KR 10-1999-79365 A D2 : KR 10-2000-11230 A

Novelty

The invention as defined in the claims is a liquid crystal display which includes a first cutout pattern and a second cutout pattern wherein width of the domains is equal to or less than 30 microns.

None of the cited prior art describes LCD which have cutout patterns where the width of the domains is equal to or less than 30 microns.

Therefore claims 1-17 fulfill the requirements of Article 33(2) PCT.

Inventive Step

D1 describes a multi-domain VA-LCD wherein pixel electrode and common electrode are partitioned using partitioning members. The pixel electrode and common electrode respectively have slit patterns for partitioning. D2 describes a multi-domain LCD wherein the pixel electrode is partitioned by forming slit cutout pattern.

The inventive step of claims 1-17 seems to rely on the upper and lower substrates which have domain partitioning members respectively. But in D1, both common electrode and pixel electrode have domain partitioning menebers. In D2, slit patttherns are used for domain partitioning.

The above citations when combined as would be obvious to a person skilled in the art, disclose all of the features of the claims.

Therefore claims 1-17 do not fulfill the requirements of Article 33(3) PCT.

Industrial Applicability Claims 1-17 fulfill the requirements of Article 33(4) PCT.